



CREO-LAND

MANET Radio for Land and Maritime Platforms

Reliable, High-Throughput Connectivity for On-the-Move Operations



Optimizing Mission-Critical Operations

In the modern battlefield, where control of autonomous platforms and critical decisions depend on high-speed and reliable communication, CreoLand leads the way with its cutting-edge software-defined radio (SDR) capabilities. This robust solution seamlessly integrates across various mobile defense platforms, from vehicles to command centers and autonomous systems. CreoLand's powerful solution supports control of platforms and enables seamless voice, data, and high-resolution video sharing on multiple platforms, ensuring uninterrupted communication even in the most challenging terrains such as urban areas, dense forests, mountains, and subterrains.

Unmatched Flexibility with Advanced MANET Technology

Leveraging advanced MANET (Mobile Ad-Hoc Network) technology, CreoLand crafts a resilient, decentralized network architecture. This self-forming and self-healing network ensures continuous connectivity without reliance on any infrastructure and without a single point of failure. It provides unmatched operational flexibility and connectivity on-the-move. CreoLand's system delivers high throughput rates, supporting up to 80Mbps for video and data.

Secure Communication Against EW Threats

Facing modern warfare's complex security challenges, CreoLand innovates with dynamic spectrum access,

coupled with frequency hopping and AES256 encryption. Our built-in CreoNet technology guarantees secure communication, effectively countering electronic warfare (EW) threats, including hostile jamming.

Tactical Edge with Custom Configurations

CreoLand equips mission-critical teams with the tactical edge needed to dominate in modern, network-centric warfare environments.

CreoLand Light: optimized for public safety and lightweight robotics, offering agility and efficiency.

CreoLand Pro: engineered for command centers, tactical vehicles, artillery and maritime connectivity, providing enhanced power and range.



Key Features and Performance



Performance

- Handles up to 80Mbps data rates
- Operates in tough environments: urban, forest, mountains, subterranean
- Delivers outstanding Non-Line-of-Sight (NLOS) performance
- MANET networks that supports multiple devices on-the-move
- Low latency and adaptive Quality-Of-Service (QoS)
- Operationally proven



Seamless integration

- Robust, military-grade design standards
- Embedded video compression (H.264/H.265)
- Decentralized network with no single point of failure
- Adaptive power and modulations that optimize efficiency, availability, and connectivity in the move
- Enables seamless integration with other Creomagig solutions to create multi-domain networks



Immunity & Security

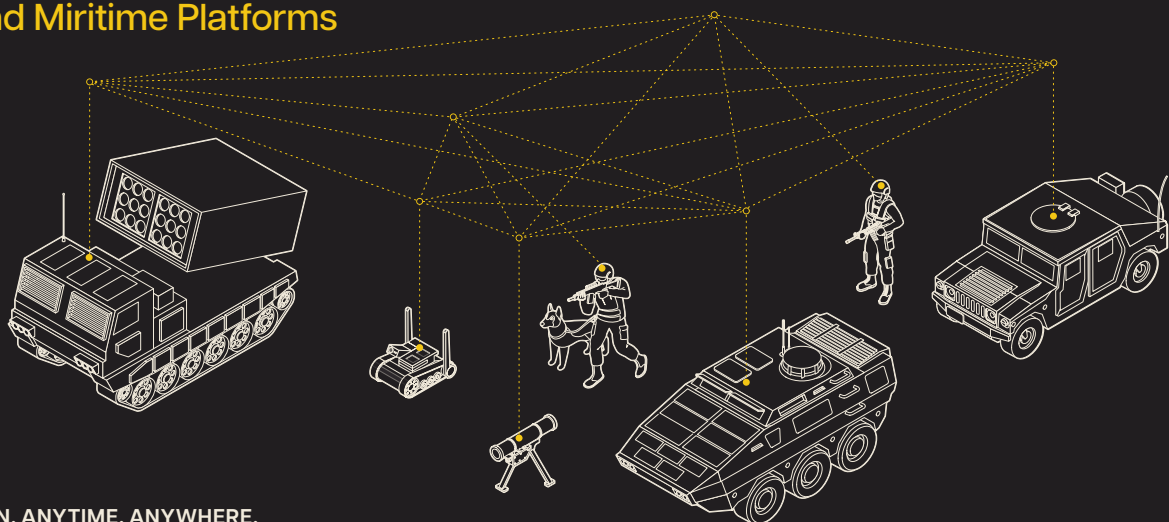
- Utilizes advanced frequency hopping
- Excels in immunity to interference
- Employs dynamic spectrum access
- Features low probability of interception and detection (LPI/LPD)
- Incorporates AES256 encryption





Applications

- Unmanned ground and maritime systems
- Rapid deployment of small tactical units up to large scale operations
- Dedicated Security Communication for VIP Convoys
- Ideal for strategic communications, long-range tactical links, artillery, command centres and special operations.
- Designed for multi-domain, scalable applications, enabling versatile deployment scenarios

Broadband MANET Radio for Land and Maritime Platforms



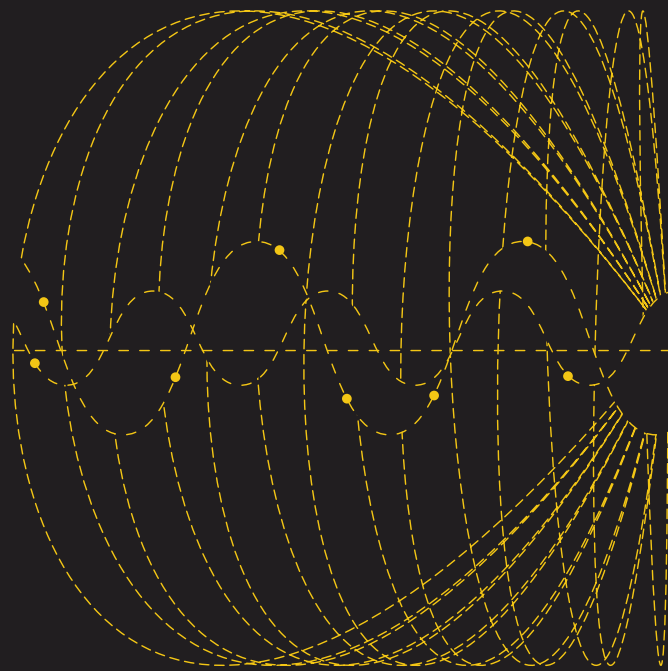
Specifications

		CREOLAND Light	CREOLAND Pro
CreoLand Units			
Transmission	Power	Up to 1W adaptive	Up to 10W adaptive
	Throughput	Up to 20Mbps (adaptive)	Up to 80 Mbps (adaptive)
	Frequency Bands	UHF / L-Band / S-Band / C-Band / Optional: Dual band feature	
	Modulation	BPSK / QPSK / QAM16 / QAM64	
	Bandwidth	2/4/8 MHz	2/4/8/16 MHz
	Antennas configuration	SIMO (MRC Diversity)	MIMO
	EMC	MIL-STD-461E	
COMSEC	Encryption	AES256	
	Immunity	Spectrum Monitoring, Frequency Hopping, Interference Avoidance	
Power Management	Input power	12-36VDC; up to 15W	12-36VDC; up to 120W
Mechanical, environmental	Weight	730gr	1700gr
	Dimensions (L,W,H)	13cm, 11cm, 4cm	17cm, 20cm, 5cm
	Standards	MIL-STD-810G	
	Ingress Protection	IP65	

About Creomagic

Creomagic develops and manufactures innovative communication solutions that form intelligent Mobile Ad-Hoc Networks (MANET), specifically designed for mission-critical and tactical operations. Our radio technology provides users with reliable, secure, and resilient connectivity for any mission.

At the core of our solutions is CreoNet, a software-defined radio (SDR) technology developed by Creomagic that leverages world-leading capabilities, including advanced waveforms, machine learning, and networking technologies. Our solutions are engineered and fine-tuned by a highly experienced team, committed to the highest standards of innovation across our products and services.




BEYOND SIGNALS
CRAFTING TOMORROW'S CONNECTIONS

CREO-LAND

Reliable, high-throughput connectivity
for on-the-move operations



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